1. An apparatus for selecting storage media scaling to improve data access performance, the apparatus comprising:

a reception module configured to receive a dataset for storage on a storage medium;

an identification module configured to identify storage characteristics of the dataset; and

a scaling module configured to select a storage instruction in response to storage criteria applied to the storage characteristics.

- 2. The apparatus of claim 1, wherein the storage instruction comprises an instruction to scale the storage medium to a predefined capacity for optimal data access performance.
- 3. The apparatus of claim 1, wherein the storage instruction comprises an instruction to not scale the storage medium.
- 4. The apparatus of claim 1, further comprising a determination module configured to store a plurality of predefined storage criteria and compare the storage characteristics of the received dataset with the predefined storage criteria to determine the storage instruction.
- 5. The apparatus of claim 1, further comprising a mapping module configured to track capacity information for the storage medium that stores the dataset.
- 6. The apparatus of claim 1, wherein the scaling module is configured to communicate the selected instruction to a storage medium controller.

- 7. A system for scaling a storage medium to improve data access performance, the system comprising:
 - a network configured to communicate data;
 - a storage controller coupled to the network;
 - a storage device having a storage medium configured to store data received from the controller over the network;
 - a host coupled to the network, the host configured to exchange data with the controller;

an application operating within the host, the application configured to produce a dataset to be stored on the storage medium; and

a scaling module configured to communicate with the application and select a storage instruction in response to storage criteria applied to storage characteristics of the dataset.

- 8. The system of claim 7, wherein the storage instruction comprises an instruction to scale the storage medium to a predefined capacity for optimal data access performance.
- 9. The system of claim 7, wherein the storage instruction comprises an instruction to not scale the storage medium.
- 10. The system of claim 7, wherein the scaling module is configured to store a plurality of predefined storage criteria and compare the storage characteristics of the dataset with the predefined storage criteria to determine the storage instruction.

- 11. The system of claim 7, wherein the storage controller is configured to receive the storage instruction and execute the storage instruction.
 - 12. The system of claim 7, wherein the scaling module operates within the host.
- 13. The system of claim 7, wherein the scaling module operates within the storage controller.
- 14. The system of claim 7, wherein the scaling module operates within the storage device.
- 15. A computer readable storage medium comprising computer readable code configured to carry out a method for selecting storage medium scaling to improve data access performance, the method comprising:

receiving a dataset to be stored on a storage medium;

identifying storage characteristics of the dataset;

determining based on storage criteria and the storage characteristics whether to scale the storage medium that will store the dataset; and

selecting instructions to scale the storage medium according to the determination.

16. The computer readable storage medium of claim 15, wherein the method further comprises defining a plurality of storage characteristics as storage characteristics that require storage on optimally scaled storage medium.

- The computer readable storage medium of claim 15, wherein the method 17. further comprises defining a plurality of storage characteristics as storage characteristics that require storage on maximum capacity storage medium.
- The computer readable storage medium of claim 15, wherein determining 18. further comprises identifying storage characteristics that satisfy storage criteria for storing the dataset on optimally scaled storage medium.
- The computer readable storage medium of claim 15, wherein determining 19. further comprises identifying storage characteristics that satisfy storage criteria for storing the dataset on maximum capacity storage medium.
- The computer readable storage medium of claim 15, wherein the method 20. further comprises tracking capacity information for the storage medium that stores the dataset.